



		Year 7 <i>2 lessons per fortnight</i>		
	Wk	Topic	Learning Aims	Assessment
Autumn	1	Internet Safety	<p>Be responsible, competent, confident and creative users of information and communication technology.</p> <p>Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and know how to report concerns.</p> <p>Explore issues around friending online, digital footprints and their impact upon their future, social media and dangers surrounding the use of each of these.</p> <p>Develop an understanding of how being a digital native can impact their life and how best to be prepared for the use of technology.</p> <p><i>Key vocabulary:</i> policies, digital footprint, impact, consequences, choices.</p>	
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	14			End of unit E-safety Assessment/Quiz Learning Journal / Teacher assessment.
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Spring	1	Computational Thinking	<p>Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems.</p> <p>Understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem.</p> <p><i>Key vocabulary:</i> decomposition, algorithm, abstraction pattern recognition, debugging, problem, trends, pseudocode, flow charts.</p>	
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Summer	1	Micro; Bits	<p>Analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.</p> <p>Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems.</p> <p>Understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem.</p> <p><i>Key vocabulary:</i> Micro:bit, component, button, LED, code, block, USB, transfer, editor, compile, input, output.</p>	
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		Year 8 <i>2 lessons per fortnight</i>		
	Topic	Learning Aims	Assessment	
	Internet Safety	<p>Be responsible, competent, confident and creative users of information and communication technology</p> <p>Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and know how to report concerns.</p> <p>Explore issues around technology and the growing dangers they can face with relation this (e.g. grooming).</p> <p>Explore scenarios and instances where things have gone wrong and learn how best to deal with such instances.</p> <p><i>Key vocabulary:</i> identity, social media, privacy, protection, CEOP, responsibility, social media, social networking, friending, sexting, laws.</p>		
			End of unit E-safety Assessment/Quiz Learning Journal / Teacher assessment.	
				Inside a Computer
End of unit Assessment/Quiz Learning Journal / Teacher assessment.				
	Scratch – Games maker (Retro)	<p>Use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]; design and develop modular programs that use procedures or functions.</p> <p><i>Key vocabulary:</i> procedures, functions, variables, score systems, gravity, blocks, control, logic.</p>		
			End of unit Assessment/Quiz Learning Journal / Teacher assessment.	